This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (Currently Amended) A catalyst comprising:
- At at least one hydro-dehydrogenating element selected-from the group consisting of
 elements of which is an element of group VIB and or of group VIII of the periodic table,
- a non-zeolitic silica-alumina-based substrate containing an amount of more than 10% by weight and less than or equal to 80% by weight of silica (SiO₂),
- a mean pore diameter a total pore volume, measured by mercury porosimetry,
 encompassed between 20 and 140 Å.
- a total pore volume, measured by mercury porosimetry, encompassed between 0.1 ml/g and 0.6 ml/g.
- a total pore volume, measured by nitrogen porosimetry, encompassed between 0.1 ml/g and 0.6 ml/g,
- a BET specific surface area encompassed between 150 and 500 m²/g,
- a pore volume, measured by mercury porosimetry, encompassed in the pores with diameters of more than 140 Å, of less than 0.1 ml/g,
- a pore volume, measured by mercury porosimetry, енеенраssed in the pores with diameters of more than 160 Å, of less than 0.1 ml/g,
- a pore volume, measured by mercury porosimetry, encompassed in the pores with diameters of more than 200 Å, of less than 0.1 ml/g,
- a pore volume, measured by mercury porosimetry, encompassed in the pores with diameters of more than 500 Å, of less than 0.1 ml/g.

- a pore distribution such that the ratio between volume V2, measured by mercury porosimetry, encompassed between D_{mean} 30 Å and D_{mean} + 30 Å to the total mercury volume is more than 0.6 volume V3, measured by mercury porosimetry, encompassed in the pores with diameters of more than D_{mean} + 30 Å is less than 0.1 ml/g volume V6, measured by mercury porosimetry, encompassed in the pores with diameters of more than D_{mean} + 15 Å is less than 0.2 ml/g,
- an X ray diffraction diagram that contains at least the main lines that are characteristic of at least one of a transition alumina, which is an the transition aluminas encompassed in the group that consists of the alpha, rho, chi, eta, gamma, kappa, theta or and delta alumina aluminas.
- (Previously Presented) A catalyst according to claim 1, having a proportion of octahedral Al_{VI} determined by the analysis of the NMR MAS spectra of the solid of ²⁷Al of more than 50%.
- (Previously Presented) A catalyst according to claim 1 comprising nickel and tungsten.
- (Previously Presented) A catalyst according to claim 1 comprising platinum and palladium.
- (Currently Amended) A catalyst according to claim 1 further comprising at least one dopant which is selected from the group consisting of phosphorus, boron, and and/or

silicon and which is deposited on the catalyst.

- (Currently Amended)
 A catalyst according to claim 1 <u>further</u> comprising at least one element of group VIIB.
- (Currently Amended) A catalyst according to claim 1 <u>further</u> comprising at least one element of group VB.
- 8. (Previously Presented) A catalyst according to claim 1 having a packing density of more than 0.85 g/cm^3 .
- (Currently Amended) A non-zeolitic silica-alumina-based substrate containing more than 10% by weight and less than or equal to 80% by weight of silica (SiO₂), comprising characterized by:
- a mean pore diameter, measured by mercury porosimetry, encompassed between 20 and 140 Å.
- a total pore volume, measured by mercury porosimetry, encompassed between 0.1 ml/g and 0.6 ml/g,
- a total pore volume, measured by nitrogen porosimetry, encompassed between 0.1 ml/g and 0.6 ml/g,
- a BET specific surface area encompassed between 150 and 500 m²/g,
- a pore volume, measured by mercury porosimetry, encompassed in the pores with diameters of more than 140 Å, of less than 0.1 ml/α.

- a pore volume, measured by mercury porosimetry, encompassed in the pores with diameters of more than 160 Å, of less than 0.1 ml/g,
- a pore volume, measured by mercury porosimetry, encompassed in the pores with diameters of more than 200 Å, of less than 0.1 ml/g,
- a pore volume, measured by mercury porosimetry, encompassed in the pores with diameters of more than 500 Å, of less than 0.01 ml/g,
- a pore distribution such that the ratio between volume V2, measured by mercury porosimetry, encompassed between D_{mean} 30 Å and D_{mean} + 30 Å to the total mercury volume is more than 0.6 volume V3, measured by mercury porosimetry, encompassed in the pores with diameters of more than D_{mean} + 30 Å is less than 0.1 ml/g volume V6, measured by mercury porosimetry, encompassed in the pores with diameters of more than D_{mean} + 15 Å is less than 0.2 ml/g.
- an X ray diffraction diagram that contains at least the main lines that are characteristic of
 at least one of <u>a transition alumina</u>, <u>which is an</u> the transition aluminas encompassed in
 the group-that consists of the alpha, rho, chi, eta, gamma, kappa, theta <u>or</u> and delta
 alumina aluminas.
- (Previously Presented) A substrate according to claim 9, having a cationic impurity content of less than 0.1% by weight.
- (Previously Presented) A substrate according to claim 9, having an anionic impurity content of less than 0.5% by weight.

- 12. (Currently Amended) A substrate according to claim 9, exhibiting an X ray diffraction diagram containing at least the main lines that are characteristic of at least one of a transition alumina, which is an the transition aluminas encompassed in the group that consists of eta, theta, delta or and gamma alumina aluminas.
- 13. (Currently Amended) A substrate according to claim 9, exhibiting an X ray diffraction diagram containing at least the main lines that are characteristic of at least one of a transition alumina, which is an the transition aluminas contained in the group that consists of ctaor and gamma- alumina aluminas.
- (Previously Presented) A substrate according to claim 9, having a mean pore diameter encompassed between 40 and 120 Å.
- 15. (Previously Presented) A substrate according to claim 9 comprising at least two silico-aluminum zones having Si/Al ratios that are less than or greater than the overall Si/Al ratio, as determined by X fluorescence.
- 16. (Previously Presented) A substrate according to claim 9 comprising a single silico-aluminum zone having an Si/Al ratio that is equal to the overall Si/Al ratio, as determined by X fluorescence, and is less than 2.3.
- (Previously Presented) A substrate according to claim 9, having a packing density, after calcination, of more than 0.65 g/cm³.

- 18. (Currently Amended) A substrate according to claim 9 having an acidity that is measured by IR tracking of the thermodesorption of pyridine is such that the B/L ratio is encompassed between 0.05 and 1.
- 19. (Withdrawn and Currently Amended) A process for hydrocracking and/or hydroconversion of a hydrocarbon-containing feedstock feedstocks comprising providing a the catalyst according to claim 1 or the catalyst that contains the non-zeolitic silica-alumina-based substrate that contains an amount that is more than 10% by weight and less than or equal to 80% by weight of silica (SiO₂), comprising eharacterized-by:
- a mean pore diameter, measured by mercury porosimetry, encompassed between 20 and 140 Å.
- a total pore volume, measured by mercury porosimetry, encompassed between 0.1 ml/g and 0.6 ml/g.
- a total pore volume, measured by nitrogen porosimetry, encompassed between 0.1 ml/g and 0.6 ml/g,
- a BET specific surface area encompassed between 150 and 500 m²/g,
- a pore volume, measured by mercury porosimetry, encompassed in the pores with diameters of more than 140 Å, of less than 0.1 ml/g,
- a pore volume, measured by mercury porosimetry, encompassed in the pores with diameters of more than 160 Å, of less than 0.1 ml/g,
- a pore volume, measured by mercury porosimetry, encompassed in the pores with diameters of more than 200 Å, of less than 0.1 ml/g.

- a pore volume, measured by mercury porosimetry, eneompassed in the pores with diameters of more than 500 Å, of less than 0.01 ml/g,
- a pore distribution such that the ratio between volume V2, measured by mercury porosimetry, encompassed between D_{mean} 30 Å and D_{mean} + 30 Å to the total mercury volume is more than 0.6 volume V3, measured by mercury porosimetry encompassed in the pores with diameters of more than D_{mean} + 30 Å is less than 0 ml/g volume V6, measured by mercury porosimetry, encompassed in the pores with diameters of more than D_{mean} + 15 Å is less than 0.2 ml/g,
- an X ray diffraction diagram that contains at least the main lines that are characteristic of
 at least one of a transition alumina, which is an the transition aluminas encompassed in
 the group that consists of the alpha, rho, chi, eta, gamma, kappa, theta or and delta
 alumina eluminas.
- (Withdrawn) A process for hydrocracking and/or hydroconversion according to claim 19 that is carried out according to a single-stage process.
- Withdrawn and Currently Amended) A process for hydrocracking and/or hydroconversion according to claim 20 that comprises:
- A a first hydrorefining reaction zone in which the feedstock is brought into contact with
 at least one hydrorefining catalyst that exhibits in a the standard activity test a
 methylcyclohexane conversion level that is less than 10% by mass,
- A a second hydrocracking reaction zone in which at least a portion of the effluent that is
 obtained from the hydrorefining stage is brought into contact with at least one non-

- zeolitic hydrocracking catalyst that exhibits in a the standard activity test a methylcyclohexane conversion level that is more than 10% by mass, and in which the proportion of the catalytic volume of the hydrorefining catalyst represents 20 to 45% of the total catalytic volume.
- 22. (Withdrawn) A process for hydrocracking and/or hydroconversion according to claim 19 that comprises at least a first hydrocrefining reaction zone and at least a second reaction zone that comprises a hydrocracking of at least a portion of the effluent of the first zone and that comprises an incomplete separation of ammonia from the effluent that exits from the first zone.
- (Withdrawn) A process for hydrocracking and/or hydroconversion according to claim 19 in a two-stage process.
- 24. (Withdrawn and Currently Amended) A process according to claim 19 that operates, in the presence of hydrogen, at a temperature of more than 200°C, under a pressure of more than 1 MPa, wherein whereby the volumetric flow rate is encompassed between 0.1 and 20 hr¹, and the amount of hydrogen that is introduced is such that the volumetric ratio of liter of hydrogen/liter of hydrogen/liter of hydrogen to is encompassed between 80 and 5000 1/l.
- 25. (Withdrawn and Currently Amended) A process for hydrocracking and/or hydroconversion according to claim 19 that operates at a pressure encompassed between 20 and 60 bar and that results in conversions of less than 40%.

- 26. (Withdrawn) A process according to claim 19 that operates in a fixed bed.
- 27. (Withdrawn) A process according to claim 19 that operates in a boiling bed.
- (Withdrawn) A process according to claim 23, in which the catalyst comprises at least one of the noble elements of group VIII.
- (Withdrawn) A process according to claim 28, in which the catalyst comprises
 platinum and/or palladium.
- 30. (Withdrawn and Currently Amended) A process for hydrotreatment of <u>a</u> hydrocarbon-containing <u>feedstock</u> feedstoeks comprising providing <u>a</u> the catalyst according to claim 1 or <u>a</u> the catalyst that contains the non-zeolitic silica-alumina- based substrate that contains an amount that is more than 10% by weight and less than or equal to 80% by weight of silica (SiO₂), comprising eharacterized-by:
- a mean pore diameter, measured by mercury porosimetry, encompassed between 20 and 140 Å.
- a total pore volume, measured by mercury porosimetry, encompassed between 0.1 ml/g and 0.6 ml/g,
- a total pore volume, measured by nitrogen porosimetry, encompassed between 0.1 ml/g and 0.6 ml/g.
- a BET specific surface area encompassed between 150 and 500 m²/g,
- a pore volume, measured by mercury porosimetry, encompassed in the pores with

- diameters of more than 140 Å, of less than 0.1 ml/g,
- a pore volume, measured by mercury porosimetry, encompassed in the pores with diameters of more than 160 Å, of less than 0.1 ml/g,
- a pore volume, measured by mercury porosimetry, encompassed in the pores with diameters of more than 200 Å, of less than 0.1 ml/g,
- a pore volume, measured by mercury porosimetry, encompassed in the pores with diameters of more than 500 Å, of less than 0.01 ml/g,
- a pore distribution such that the ratio between volume V2, measured by mercury porosimetry, encompassed between D_{mean} 30 Å and D_{mean} + 30 Å to the total mercury volume is more than 0.6 volume V3, measured by mercury porosimetry encompassed in the pores with diameters of more than D_{mean} + 30 Å is less than 0 ml/g volume V6, measured by mercury porosimetry, encompassed in the pores with diameters of more than D_{mean} + 15 Å is less than 0.2 ml/g.
- an X ray diffraction diagram that contains at least the main lines that are characteristic of at least one of a transition alumina, which is an the transition aluminas encompassed in the group that consists of the alpha, rho, chi, cta, gamma, kappa, theta or and delta alumina aluminas.
- (Withdrawn) A process according to claim 30 that is placed upstream from a hydrocracking process.
- (Withdrawn) A process according to claim 31, where the hydrocracking catalyst is based on zeolite.

- (Withdrawn) A process according to claim 31, where the hydrocracking catalyst is based on silica-alumina.
- (Withdrawn) A process according to claim 19, in which the hydrocracking catalyst is based on nickel and tungsten.
- 35. (Withdrawn and Currently Amended)

 A process according to claim 19, in which the hydrocarbon-containing feedstock is feedstocks-are-selected from the group consisting of LCO (light cycle oil), an atmospheric distillate distillates, distillate distillates, whereby the feedstocks are wherein the feedstock is obtained from a unit units for extracting aromatic compounds from lubricating oil bases or obtained from a solvent dewaxing of lubricating oil base bases, whereby the distillates are wherein the distillate is obtained by a processes for desulfurization or hydroconversion in a fixed bed or in a boiling bed of a RAT (atmospheric residue residues) and/or RSV (vacuum residue residues) and/or a desasphalted oil oils, the deasphalted oil by itself oils, by themselves or in a mixture.
- (New) A catalyst according to claim 1, wherein the pore volume, measured by mercury porosimetry, in the pores with diameters of more than 500 Å is 0.01 ml/g.
- (New) A catalyst according to claim 1, wherein the pore volume, measured by mercury porosimetry, in the pores with diameters of more than 500 Å is 0.001 ml/g.